OPERATING INSTRUCTIONS
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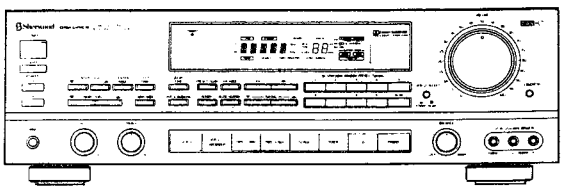


# RV-5030R

*Stereo A/V Pro-Logic Receiver*
*AudioVideo*
*Dolby Prologic Stereo Receiver*

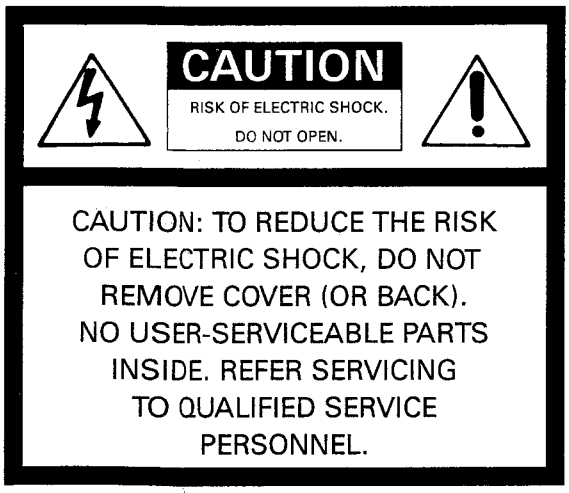
Sherwood

# Unpacking and Installation

ENGLISH

## Congratulations on Your Purchase!

Your new high fidelity Receiver is designed to deliver maximum enjoyment and years of trouble free service. Please take a few moments to read this manual thoroughly. It will explain the features and operation of your unit and help a trouble free installation.
Please unpack your unit carefully. We recommend that you save the carton and packing material. They will be helpful if you ever need to move your unit and may be required if you ever need to return it for service. Your unit is designed to be placed in a horizontal position and it is important to allow at least two inches of space behind your unit for adequate ventilation and cabling convenience.
To avoid early damage, never place the unit near radiators, in front of heating vents, in direct sun light, or in excessively humid or dusty location. Connect your complementary components as illustrated in the following section.


CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**WARNING**

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

**Note to CATV System Installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

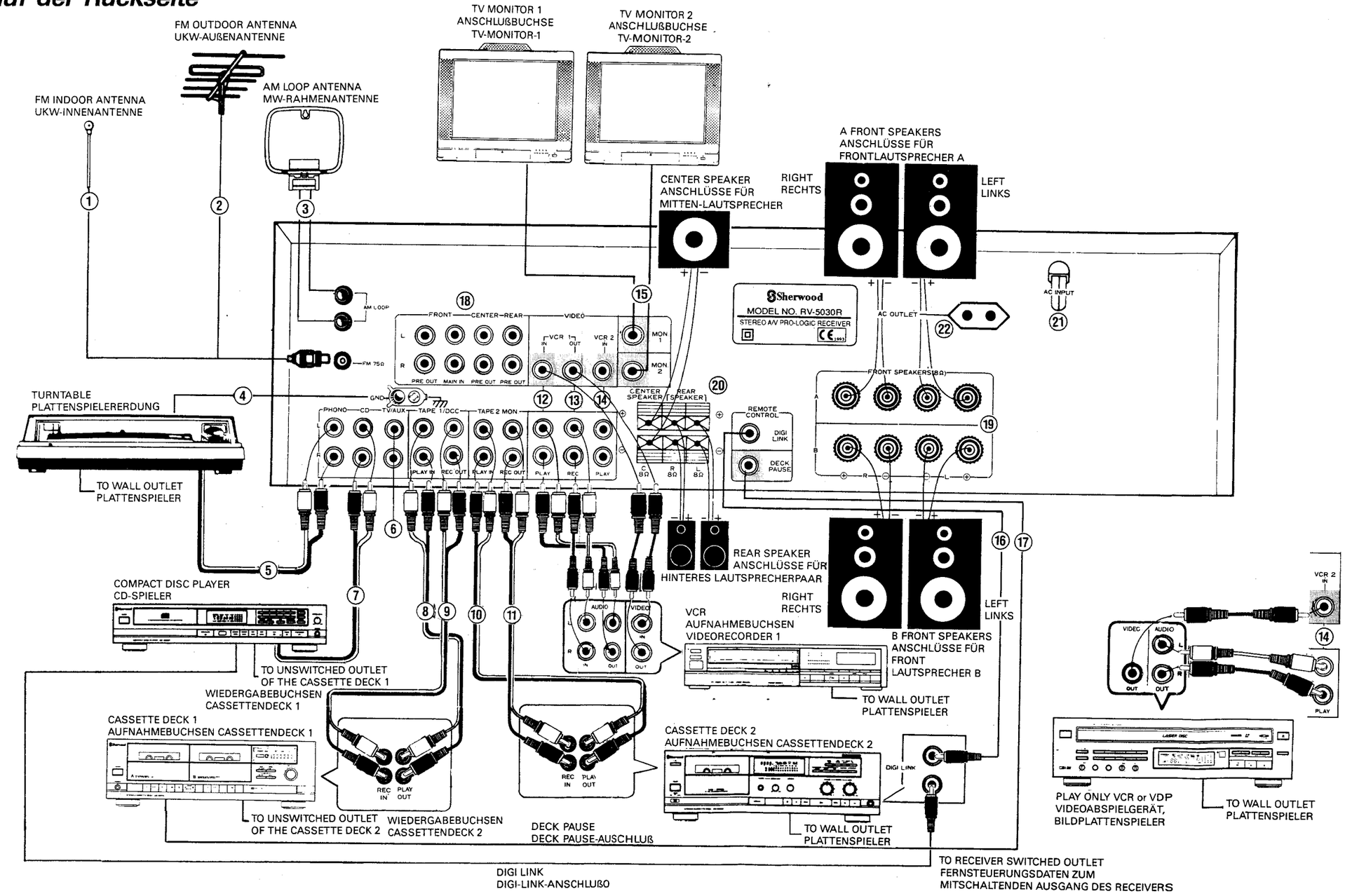
Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attention: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

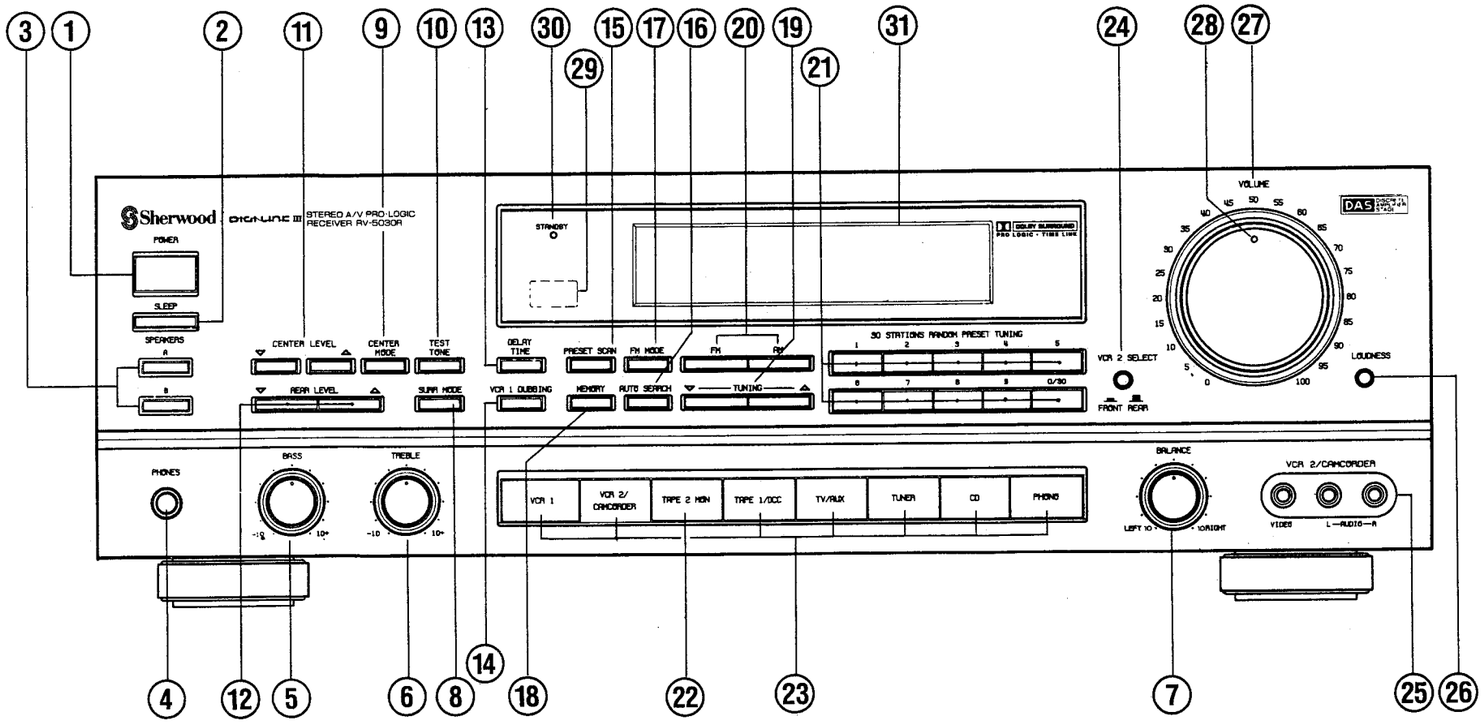
Caution: Do not block ventilation openings or stack other equipment on top.

Attention: Ne pas bloquer les conduits d'aération ou entass d'áutre ®equipment dessus.

## *Rear Panel Connections*
## *Anschlüsse auf der Rückseite*



## *Front Panel Controls*
## *Bedienungselemente auf der Vorderseite*



# Rear Panel Connections

### 1. FM INDOOR ANTENNA

Connect the supplied antenna to the FM antenna terminal, as shown in the Rear Panel Connection Diagram. Change the position of the antenna until you get the best reception of your favorite stations.

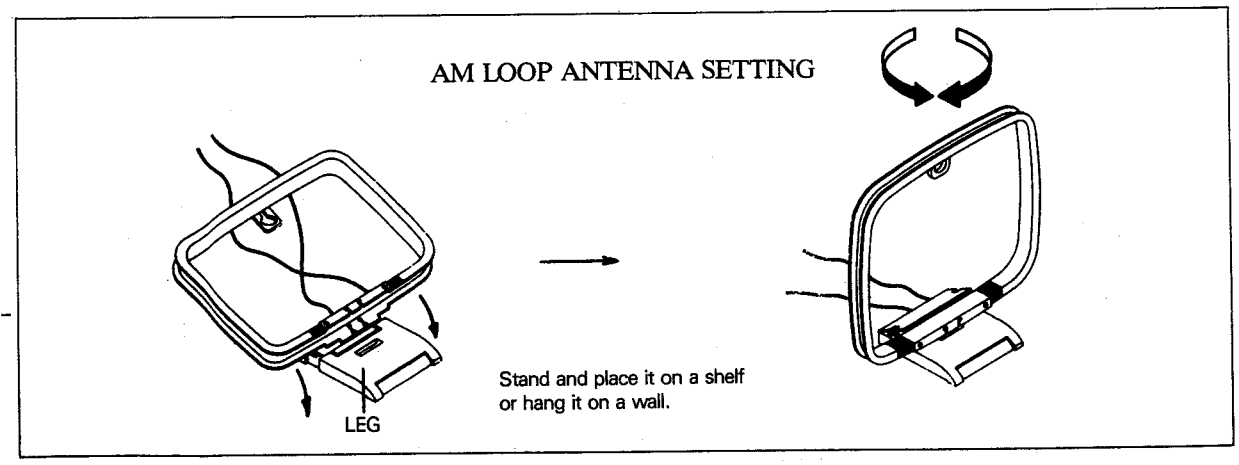
### 2. FM OUTDOOR ANTENNA

An outdoor FM antenna of 75 ohm may be used to further improve the sound quality of the reception. Disconnect the indoor antenna before replacing it with the outdoor one.

### 3. AM LOOP ANTENNA

Tune in your favorite AM station and position the loop antenna for best reception. Try other stations and find the position that gives best overall reception. When this unit is mounted in a rack or placed on a shelf with insufficient space behind, hang it on a wall in the direction which gives best reception.

NOTE: If noise is heard during AM reception, move it for best reception.
To prevent undesired noise, AM LOOP ANTENNA should be located away from the DIGI-LINK cord over 12 inches (30cm).




### 4. SYSTEM GROUND TERMINAL

To reduce hum to a minimum, connect the ground lead from your TURNTABLE to this terminal.

### 5. PHONO INPUT JACKS

Input for TURNTABLE with a MM cartridge having 47K ohms of load impedance. Connect shielded cables from your phono to the LEFT and RIGHT input jacks.

NOTE: Do not place your TURNTABLE on a speaker enclosure. This will avoid howling caused by transmission of the speaker vibration to the TURNTABLE.

### 6. TV/AUX INPUT JACKS

This extra stereo input is provided for any source you want to hear. An additional compact disc player, a tape recorder, a video tape recorder (VTR), or a turntable with ceramic cartridge, etc. can be plugged into these jacks.

### 17. DECK PAUSE OUTPUT JACK

Connect this jack to the DECK PAUSE INPUT jack of the mechanical cassette deck bearing the DIGI-LINK III mark or to the REMOTE CONTROL DATA INPUT jack of the mechanical cassette deck bearing the DIGI-LINK II mark. If you do not use a Sherwood mechanical cassette deck, leave this jack without connection.

### 18. FRONT, CENTER, REAR PRE OUT and MAIN IN JACKS

**[FRONT PRE OUT]**

When a separate power amplifier is used to drive the front speakers, connect the power amplifier to these jacks.

**[FRONT MAIN IN]**

When a separate pre-amplifier is connected and this unit is used as power amplifier, connect the pre-amplifier to these jacks.

NOTE: When you do not use the PRE OUT or MAIN IN, always connect the PRE OUT and MAIN IN jacks with jumper plug.

**[CENTER PRE OUT]**

When a separate power amplifier is used to drive the center speaker, connect the power amplifier to these jacks.

**[REAR PRE OUT]**

When a separate power amplifier is used to drive the rear speakers, connect the power amplifier to these jacks.

### 19. A/B SPEAKER TERMINALS

Connect the main left (L) and right (R) speakers to the corresponding A and B speaker terminals. Make sure that the positive (+) and negative (−) terminals on the speaker are connected to the corresponding terminals on the receiver.

### 20. CENTER/REAR SPEAKER TERMINALS

Connect center and rear speakers to the corresponding terminals.
When you connect the rear speakers, connect both L and R speakers.
NOTE: For front, center, and rear speakers. You should use speakers having an impedance of at least 8 ohms.

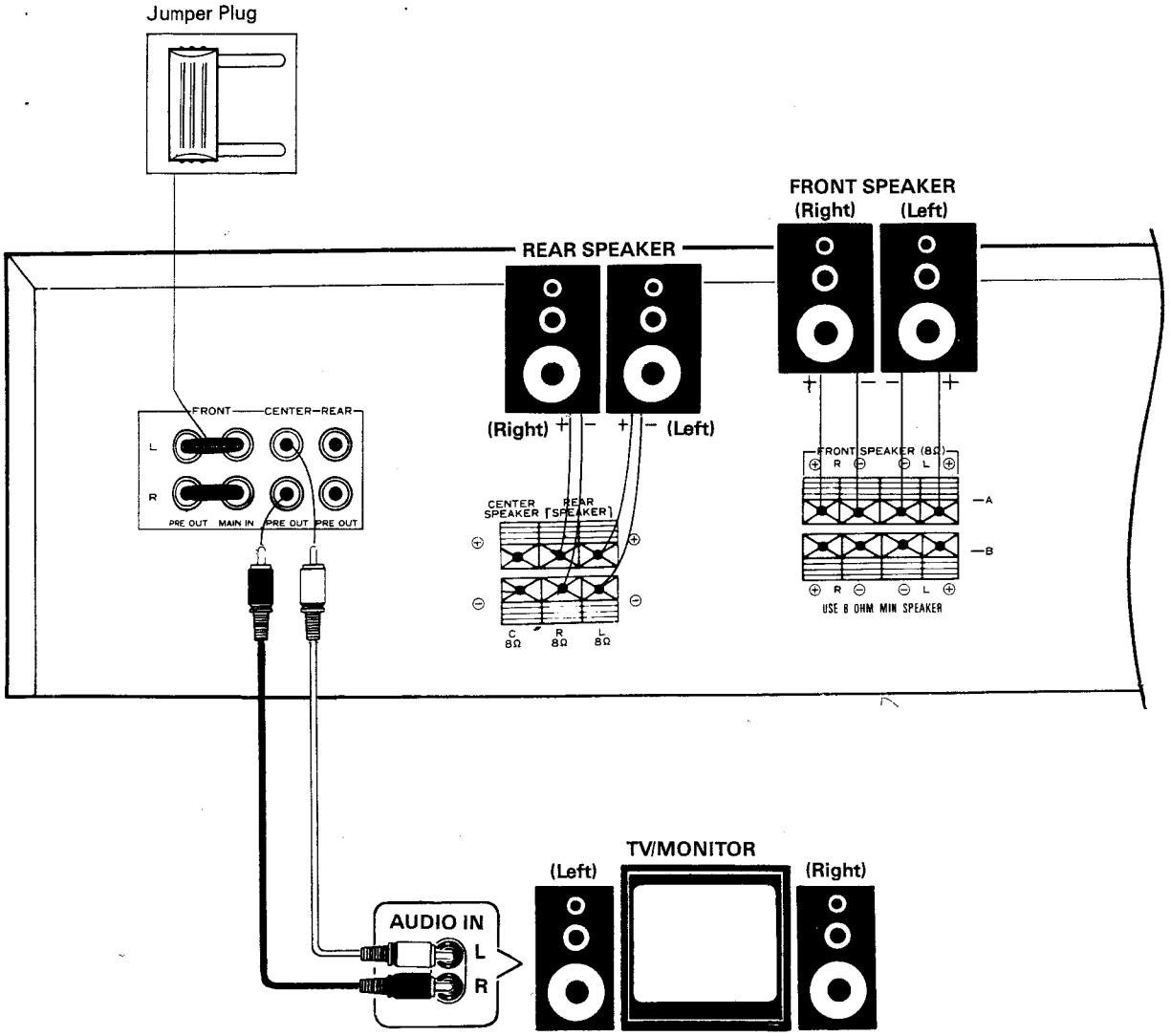
### 21. AC INPUT CORD

Plug this cord in AC outlet on a wall.

### 22. AC SWITCHED OUTLET

This outlet provides AC power.
The AC power is switched by the power button.
Use this outlet for a CD player or a cassette deck.

• When you drive the center speaker with another amplifier or TV.



# *Front Panel Controls*

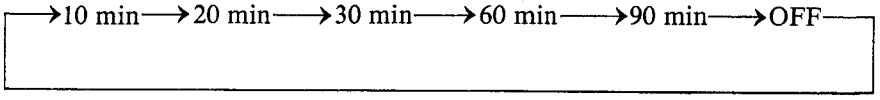
### 1. POWER BUTTON

Press this button to turn the power on. Press again to turn the power off. It can also be used as a system power button, if you connect the other components to the switched outlets.

NOTE: In POWER OFF state, the STAND BY indicator will light up and the power is partially supplied into the infrared remote control receiver and the memory circuitry.

### 2. SLEEP BUTTON

Press this button to set the receiver to automatically turn off after 10, 20, 30, 60 or 90 minutes. Each time the button is pressed, the setting is changed as below.




NOTE: When the sleep time is set, whole display windows of Sherwood components connected by the DIGI-LINK III are dimly lit.

### 3. A/B SPEAKER SWITCHES

These switches allow you to select various combinations of speakers as follows;

- To drive A speakers, push only A switch in.
- To drive B speakers, push only B switch in.
- To drive both A and B speakers, push A and B switches in.
- To use headphones for private listening or monitoring, do not push both A and B switches in.

NOTE: If both speaker switches are pushed in and only one set of speakers is connected to the receiver, no sound will be heard.

### 4. HEADPHONE JACK

Stereo headphones can be plugged into this jack for private listening. Headphone impedance should be between 8 and 2K ohms. Best results between 200 and 400 ohms.

### 5. BASS CONTROL

Modifies the low frequency sound of left and right channels as much as ± 10dB. Set this control at a suitable position for your taste and room acoustics.

### 6. TREBLE CONTROL

Modifies the high frequency sound of left and right channels as much as ± 10dB. Set this control at a suitable position for your taste and room acoustics.

### 7. BALANCE CONTROL

This control is used for balancing the relative sound volume of the left and right channel speakers. Clockwise rotation reduces the volume from the left speaker, counterclockwise rotation reduces the volume from the right speaker.

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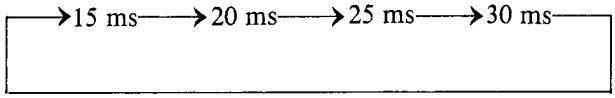
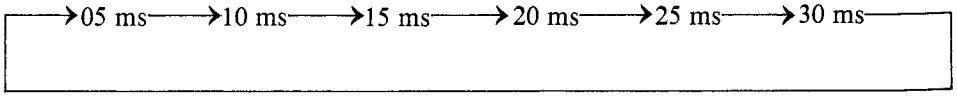
### 13. DELAY TIME BUTTON

This button operates only in DOLBY PRO-LOGIC and HALL mode. In these modes, the output signal from the surround speakers is delayed slightly from that of the front speakers. Select appropriate delay time to achieve the best surround sound effect. For Dolby-Surround sound, we recommend a 20 ms delay. The time is changed as below, when it is pressed in succession.

(DOLBY PRO-LOGIC MODE)




(HALL MODE)




### 14. VCR 1 DUBBING BUTTON

Press the VCR 2 button and VCR 1 DUBBING button.
Set the recording VCR (VCR 1) to the recording mode.
Set the playback VCR (VCR 2) to the playback mode.
Dubbing will start.

- To hear other input source during video tape dubbing.
  Press the input function you want to hear, and play the input source.
- To add new sound on a video tape during video editing.
  Release the VCR 1 DUBBING mode.
  Press the input function you want to record, and play the input source.

NOTE: If you press the TEST TONE button during VCR 1 DUBBING, the audio signal is not recorded.

### 15. PRESET SCAN BUTTON

Press this button to scan the preset station frequencies. The receiver stops at each preset location that contains a frequency for about 4 seconds, so you can hear a station. The preset location indicator blinks 4 times. Press this button again to stop scanning.

### 16. AUTO/MANUAL TUNING SELECTOR

Press this button to select AUTO or MANUAL tuning.

- In AUTO mode, scanning is automatically continued up or downward until the next station is picked up by pressing UP/DOWN tuning button. The display window shows 'SEARCH'. Use this mode to quickly find strong AM or FM stations.
- In MANUAL mode, the frequency is changed by a step with the UP/DOWN button.
  If you keep pressing the UP/DOWN tuning button, scanning is continued until the button is released.

NOTE: Tuning intervals

| BAND | USA/CANADA | EUROPE/AUSTRALIA |
|---|---|---|
| FM | 200 KHz | 50 KHz |
| AM | 10 KHz | 9 KHz |

### 25. VCR 2/CAMCORDER INPUT JACKS

**VIDEO IN**

Connect to the VIDEO OUTPUT jack of a VCR.

**AUDIO IN**

Connect to the AUDIO OUTPUT jacks of a VCR.

### 26. LOUDNESS BUTTON

Press this button to compensate for the response of the human ear at low listening level known as the Fletcher – Munson hearing curve. The high and low frequencies are automatically boosted when this button is pushed in.
In OFF position, the frequency response is flat at all volume levels. This button does not work at high volume level.

### 27. VOLUME CONTROL

Turn the VOLUME clockwise to increase the volume and counterclockwise to decrease it. The volume of the front, center, and rear channel is changed at the same time.

### 28. VOLUME LEVEL INDICATOR

This indicator moves in accordance with the volume level. The indicator blinks when the mute button on the remote commander is pressed.

### 29. INFRARED RECEIVER WINDOW

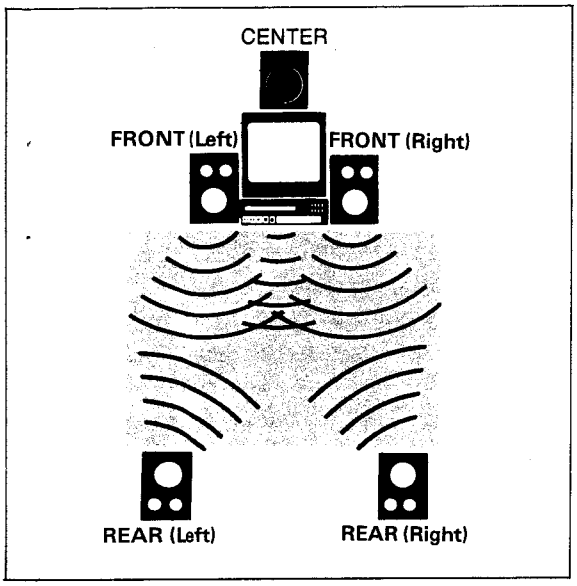
Receives the signals from the remote commander.

### 30. STAND-BY INDICATOR

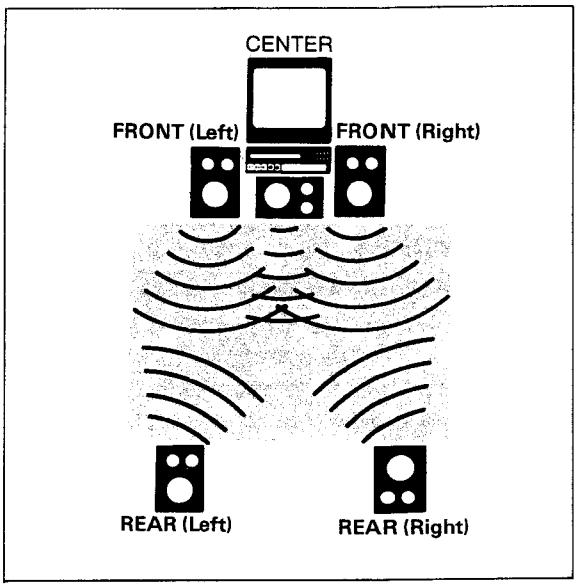
This indicator lights up when this Receiver is in stand-by mode.

### 31. DISPLAY WINDOW

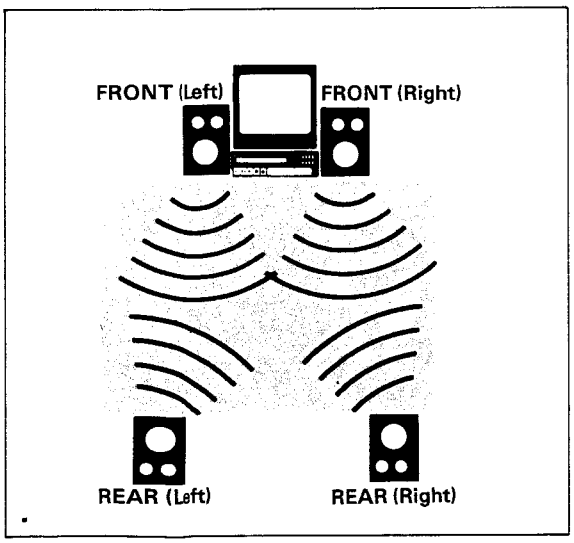
This window shows the state of operation for easier control of the Receiver.



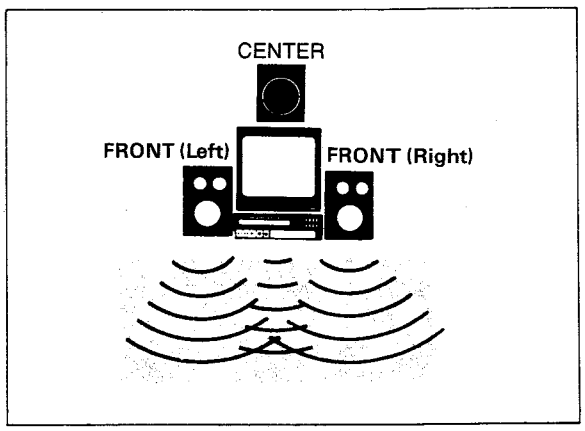

**NORMAL mode**
Select this mode if you use a small center speaker. The bass sound of the center channel is output from the front speakers, as a small speaker can't produce enough bass.




**WIDE mode**
Select this mode if you use a medium to big center speaker.




**PHANTOM mode**
Select this mode when you play back a Dolby surround program source without using a center speaker.
The sound of the center channel is output from the front (L and R) speakers.




**3 STEREO mode**
Select this mode when you play back a Dolby surround program source only with the front and center speakers. The sound of the rear channel is output from the front (L and R) speakers.

## TAPE DUBBING

1. Insert a blank tape into a cassette deck 2 (TAPE2).
2. Insert a recorded tape into a cassette deck 1 (TAPE1).
3. Select the input function of TAPE2 MON to monitor the sound. (See No. ⑪ on page 10)
4. Set the cassette deck 2 to recording mode.
5. Set the cassette deck 1 to playback mode.
   Dubbing will start.

NOTE: If you press the TEST TONE button during TAPE RECORDING or TAPE DUBBING, the audio signal is not recorded.

## PROTECTION CIRCUITS

This receiver has special protection circuits.

- The thermal overload protection circuit automatically turns off the power if it begins to overheat.
- The overdrive protection circuit automatically turns off the power if it is about to deliver too much power.
- The short protection circuit automatically turns off the power if the speaker terminals are shorted.

If the receiver turns off, check to be sure that the ventilation holes on the top of the receiver are clear of obstructions, and check the speaker connections and impedance.

NOTE: 1. For the Sherwood mechanical deck such as DD-2010C and DD-1010C, etc., only the ▮▮ (pause) button is available.
2. If you use a Sherwood single deck such as DS-5010 or DS-5015, you must set the deck A/B select button to A.

### 7. INPUT FUNCTION SELECTOR

Press the button to select the desired input function. The available buttons are CD, TUNER, TAPE 1/DCC, TAPE 2, TV/AUX, VCR 1, VCR 2, and PHONO. The VDP button is not available for this receiver.

- By pressing the following buttons, you can not only play the Sherwood's desired input source, but change the input function of this receiver to the corresponding function automatically without pressing it again.
- This function can be performed when this receiver is connected with only Sherwood components bearing the DIGI-LINK III mark.

| Pressing | Input Function of the Receiver |
|---|---|
| Forward Play, Reverse Play | TAPE 2 MON |
| Play, Intro | CD |
| Preset Scan | Tuner |

NOTE:
- When no CD is loaded, this function does not work.
- When no cassette tape is loaded, this function does not work. (Only a logic cassette deck is available)

### 8. SURROUND MODE SELECTOR

These buttons are used to select the surround mode.
- HALL/STAD button selects the HALL mode for this receiver.
- THEATER button is not available for this receiver.
- 3-CH button selects the DOLBY 3 STEREO mode for this receiver.
- D-TIME button sets the delay time.

### 9. EQUALIZER CONTROL BUTTONS (For use with optional models: EQ-5010C, EQ-3010C)

- TAPE M : Press this button to monitor the sound during recording or playing of a cassette tape.
- PRESET : Selects the preset equalizer pattern.
- USER : Adjusts the equalizer pattern as desired.
- FILE : Selects the equalizer pattern of PRESET or USER.

### 10. CENTER LEVEL BUTTONS

Adjust the volume level of the center speakers.

### 11. CENTER MODE BUTTON

Selects the center mode. (See page 16)

### 12. TEST TONE BUTTON

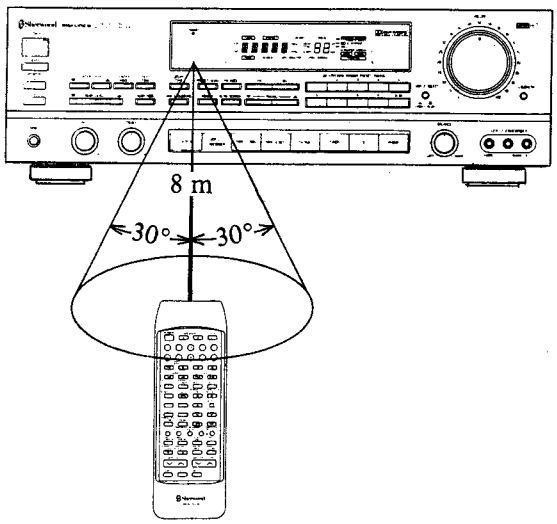
Generates test sounds in all channels (Left, Center, Right and Surround) in succession.

### 13. REAR LEVEL BUTTONS

Adjust the volume level of the rear speakers.

### 14. MASTER VOLUME BUTTONS

Adjust the overall (front, center, and rear) volume level.




**REMOTE CONTROL OPERATION RANGE**

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## IN CASE OF DIFFICULTY

If your receiver does not perform as expected, see the table below before consult with your dealer or service representative.

| SYMPTOM | CAUSES | REMEDY |
|---|---|---|
| No power | 1. Power cord is not plugged in.<br>2. Poor connection at wall outlet. The outlet is inactive. | 1. Check plug contact.<br>2. Check outlet using lamp or other appliance (outlet may be controlled by a wall switch). |
| No sound from the front speakers. | 1. Speaker cords are disconnected.<br>2. Speakers are switched off. | 1. Check speaker connections.<br>2. Check speaker switch. |
| No sound from the rear speakers. | 1. SURROUND mode is set to off.<br>2. Master and rear volume is too low.<br>3. Monaural source is used. | 1. Select a surround mode.<br>2. Adjust the volume level of the front and the rear speakers.<br>3. Change the playback source to the stereo or surround source. |
| No sound from the center speaker | 1. PRO·LOGIC or 3 STEREO mode is not selected.<br>2. Master and center volume is too low.<br>3. CENTER mode switch is set to Phantom or OFF. | 1. Select the PRO·LOGIC or 3 STEREO mode.<br>2. Adjust the volume level of the front and the center speakers.<br>3. Set the CENTER mode to Normal or Wide. |

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# Specifications

## AMPLIFIER

### Front Channel

80 Watts per channel, minimum RMS into 8 ohms from 20-20,000 Hz with no more than 0.15% Total Harmonic Distortion.

Frequency Response (1 Watt, CD/AUX in) ..... 20-20,000 Hz
IM Distortion (80 Watts, 60/7,000 Hz) ..... 0.2%
Signal to Noise Ratio ..... 70 dB (PHONO) 90 dB (AUX)
Input Sensitivity
  Phono ..... 2.5 mV
  CD/AUX ..... 150 mV
  VCR/TAPE ..... 150 mV
Phono Equalization ..... RIAA ±2 dB
Total Harmonic Distortion (80 Watts)
  20 Hz ..... 0.15%
  1 kHz ..... 0.08%
  20 kHz ..... 0.15%

## SURROUND OPERATION

### Front Channel

50 Watts per channel, minimum RMS into 8 ohms at 1kHz, with no more than 0.7% Total Harmonic Distortion.

### Center Channel

50 Watts per channel, minimum RMS into 8 ohms at 1kHz, with no more than 0.7% Total Harmonic Distortion.

### Rear Channel

12.5 Watts per channel, minimum RMS into 8 ohms at 1kHz, with no more than 0.7% Total Harmonic Distortion.

## AM TUNER

Tuning Range ..... 522-1611 KHz
Sensitivity (20 dB S/N) ..... 350 $\mu$V/m
Image Rejection ..... 37 dB
IF Rejection ..... 60 dB
Total Harmonic Distortion (5 mV/m) ..... 0.8%
Signal to Noise Ratio (5 mV/m) ..... 40 dB
RF Interference Rejection ..... Rated Excellent

**FM TUNER**

| | |
|---|---|
| Tuning Range | 87.5-108.0 MHz |
| IHF Sensitivity (3% THD) | 1.2 $\mu$V (9.8 dBf) |
| Limiting Sensitivity (−3 dB) | 1.0 $\mu$V (6.8 dBf) |
| Signal-to-Noise Ratio | 73 dB |
| Capture Ratio | 1.5 dB |
| Total Harmonic Distortion (1 mV) | |
| Mono | 0.3% |
| Stereo | 0.5% |
| Image Rejection | >50 dB |
| IF Rejection | >80 dB |
| Channel Separation at 1,000 Hz | 45 dB |

**GENERAL**

| | |
|---|---|
| Power Consumption | 500 W |
| Unit Dimension (W×H×D) | 440×125×380 mm |
| Unit Weight | 10Kg |

NOTE: Design and specifications are subject to change without notice for improvements.